

# TEL (H-214): sc-11382

## BACKGROUND

Ets-1 is the prototype member of a family of genes identified on the basis of homology to the v-Ets oncogene isolated from the E26 erythroblastosis virus. Members of the Ets gene family exhibit varied patterns of tissue expression and share a highly conserved carboxy terminal domain containing a sequence related to the SV40 large T antigen nuclear localization signal sequence. This conserved domain is essential for Ets-1 binding to DNA and is likely to be responsible for the DNA binding activity of all members of the Ets gene family. Several of these proteins have been shown to recognize similar motifs in DNA that share a centrally located 5'-GGAA-3' element. TEL (for translocation, Ets, leukemia), also designated ETV6, is a member of the Ets family that is involved in specific chromosomal translocations in human leukemia and sarcoma.

## CHROMOSOMAL LOCATION

Genetic locus: ETV6 (human) mapping to 12p13.2; Etv6 (mouse) mapping to 6 G1.

## SOURCE

TEL (H-214) is a rabbit polyclonal antibody raised against amino acids 119-332 of TEL of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-11382 X, 200 µg/0.1 ml.

## APPLICATIONS

TEL (H-214) is recommended for detection of TEL of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TEL (H-214) is also recommended for detection of TEL in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TEL siRNA (h): sc-36635, TEL siRNA (m): sc-36636, TEL shRNA Plasmid (h): sc-36635-SH, TEL shRNA Plasmid (m): sc-36636-SH, TEL shRNA (h) Lentiviral Particles: sc-36635-V and TEL shRNA (m) Lentiviral Particles: sc-36636-V.

TEL (H-214) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TEL: 57 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, Jurkat whole cell lysate: sc-2204 or HeLa nuclear extract: sc-2120.

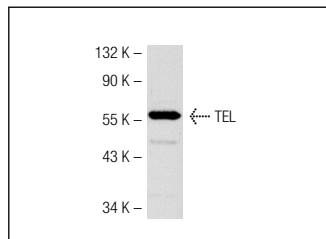
## RESEARCH USE

For research use only, not for use in diagnostic procedures.

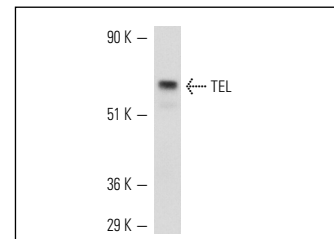
## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## DATA



TEL (H-214): sc-11382. Western blot analysis of TEL expression in HeLa nuclear extract.



TEL (H-214): sc-11382. Western blot analysis of TEL expression in CCRF-CEM whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Nishimura, N., et al. 2003. Suppression of ARG kinase activity by STI571 induces cell cycle arrest through up-regulation of CDK inhibitor p18/INK4c. *Oncogene* 22: 4074-4082.
2. Morrow, M., et al. 2004. TEL-AML1 promotes development of specific hematopoietic lineages consistent with preleukemic activity. *Blood* 103: 3890-3896.
3. Takahashi, W., et al. 2005. TEL/ETV6 accelerates erythroid differentiation and inhibits megakaryocytic maturation in a human leukemia cell line UT-7/GM. *Cancer Sci.* 96: 340-348.
4. van Wely, K.H., et al. 2007. The MN1-TEL myeloid leukemia-associated fusion protein has a dominant-negative effect on RAR-RXR-mediated transcription. *Oncogene* 26: 5733-5740.
5. Goettsch, C., et al. 2011. Arterial flow reduces oxidative stress via an antioxidant response element and Oct-1 binding site within the NADPH oxidase 4 promoter in endothelial cells. *Basic Res. Cardiol.* 106: 551-561.
6. Schachterle, W., et al. 2012. ETS-dependent regulation of a distal Gata4 cardiac enhancer. *Dev. Biol.* 361: 439-449.
7. Gotou, M., et al. 2012. Establishment of a novel human myeloid leukemia cell line, AMU-AML1, carrying t(12;22)(p13;q11) without chimeric MN1-TEL and with high expression of MN1. *Genes Chromosomes Cancer* 51: 42-53.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **TEL (E-1): sc-166835**, our highly recommended monoclonal alternative to TEL (H-214).